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Mary Fernández, Yana Kadiyska, Dan Suciu, Atsuyuki Morishima, Wang-Ch
December 2002 **Transactions on Database Systems (TODS)** , Volume 27 I
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XML is the "lingua franca" for data exchange between interenterprise ap
SilkRoute, a framework for publishing relational data in XML. In SilkRou
steps: the relational tables ...

Keywords: XML, XML storage systems, XQuery

2 Holistic twig joins on indexed XML documents
Haifeng Jiang, Wei Wang, Hongjun Lu, Jeffrey Xu Yu
September 2003 **VLDB '2003: Proceedings of the 29th international cc
- Volume 29** , Volume 29
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Finding all the occurrences of a twig pattern specified by a selection pre
document is a core operation for efficient evaluation of XML queries. Ho
proposed recently as an optimal solution ...

3 On the minimization of XPath queries
S. Flesca, F. Furfaro, E. Masciari
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XPath expressions define navigational queries on XML data and are issu
element nodes. Due to the wide use of XPath, which is embedded into s
manipulating XML data, the problem of ...

4 Containment and equivalence for a fragment of XPath

Gerome Miklau, Dan Suciu

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XPath is a language for navigating an XML document and selecting a se
are used to query XML data, describe key constraints, express transforn
remote documents. This article studies ...

5 A system for the static analysis of XPath

Pierre Geneves, Nabil Layaida

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XPath is the standard language for navigating XML documents and retur
present a sound and complete decision procedure for containment of XF
XPath decision problems such as satisfiability, ...

6 FleXPath: flexible structure and full-text querying for XML

Sihem Amer-Yahia, Laks V. S. Lakshmanan, Shashank Pandit

June 2004 **SIGMOD '04: Proceedings of the 2004 ACM SIGMOD internati**
                data

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Querying XML data is a well-explored topic with powerful database-style
XQuery set to become W3C standards. An equally compelling paradigm
search on textual content. In this paper, ...

7 Path queries on compressed XML

Peter Buneman, Martin Grohe, Christoph Koch

September 2003 **VLDB '2003: Proceedings of the 29th international co**
                - Volume 29 , Volume 29

Publisher: VLDB Endowment

Full text available: 📄 Pdf (227.35 KB)   Additional Information: full citation, abstra

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Central to any XML query language is a path language such as XPath wh
the XML document. We demonstrate in this paper that the tree structure
manipulated using techniques derived from ...

8 Meta-data indexing for XPath location steps
SungRan Cho, Nick Koudas, Divesh Srivastava
June 2006   **SIGMOD '06**: Proceedings of the 2006 ACM SIGMOD internati
data

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XML is the de facto standard for data representation and exchange over
information available in XML, it is very useful to annotate XML data with
quality and sensitivity. When querying ...

Keywords: XML, hierarchical inheritance, meta-data index

9 On boosting holism in XML twig pattern matching using structural inc
Ting Chen, Jiaheng Lu, Tok Wang Ling
June 2005   **SIGMOD '05**: Proceedings of the 2005 ACM SIGMOD internati
data

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Searching for all occurrences of a twig pattern in an XML document is an
processing. Recently a holistic method *TwigStack*. [2] has been propose
intermediate results which do ...

10 Compressing and indexing labeled trees, with applications
Paolo Ferragina, Fabrizio Luccio, Giovanni Manzini, S. Muthukrishnan
November 2009 **Journal of the ACM (JACM)** , Volume 57 Issue 1

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Consider an ordered, static tree *T* where each node has a label from alp
degree and shape. Our goal is designing a compressed storage scheme
operations ...

Keywords: Burrows-Wheeler transform, XML compression, XML indexir
tree indexing, path searching, tree navigation

11 XRel: a path-based approach to storage and retrieval of XML docum
August 2001 **Transactions on Internet Technology (TOIT)** , Volume 1 Issu
Publisher: ACM Request Permissions
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📄 Pdf (264.27 KB)   Additional Information: full citation, abstra

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This article describes XRel, a novel approach for storage and retrieval of
databases. In this approach, an XML document is decomposed into node
stored in relational tables according ...

Keywords: XML query, XPath, text markup, text tagging

12 Usage-driven storage structures for native XML databases
◆ Karsten Schmidt, Theo Härder
September 2008 **IDEAS '08**: Proceedings of the 2008 international sympos
     applications
Publisher: ACM
Full text available: 📄 Pdf (429.90 KB)   Additional Information: full citation, abstra

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There are numerous and influential parameters associated with the sele
structures for XML documents within an XML DBMS. The most importan
labeling, path synopsis, document container layout, ...

Keywords: XML database, access patterns, storage structures, workloa

13 Optimizing updates of recursive XML views of relations
Ramadhana Bramandia, Jieleng Cheng, Byron Choi, Jeffrey Xu Yu
December 2009 **The VLDB Journal — The International Journal on Ver**
Publisher: Springer-Verlag New York, Inc.
Full text available: 📄 Pdf (1.53 MB)   Additional Information: full citation, abstra

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XML publishing has been an emerging technique for transforming (portio
XML document, for example, to facilitate interoperability between heter
applications may update the XML document and ...

Keywords: View updates, XML publishing, XML view updates

14 Fast structural query with application to chinese treebank sentence r
◆ Chia-Hsin Huang, Tyng-Ruey Chuang, Hahn-Ming Lee
October 2004 **DocEng '04**: Proceedings of the 2004 ACM symposium on Do
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In natural language processing a huge amount of structured data is con
presentation of grammatical structures in sentences. For example the C
the Institute of Information Science Academia ...

Keywords: XML, structural query, treebank

15 Succinct ordinal trees with level-ancestor queries
Richard F. Geary, Rajeev Raman, Venkatesh Raman
October 2006 **Transactions on Algorithms (TALG)** , Volume 2 Issue 4
Publisher: ACM ◆ Request Permissions
Full text available: 🔲 Pdf (472.00 KB)   Additional Information: full citation, abstract

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We consider *succinct* or space-efficient representations of trees that effi
operations. We focus on static *ordinal* trees, that is, arbitrary static root
node are ordered. ...

Keywords: Succinct data structures, XML document representation

16 Fast ELCA computation for keyword queries on XML data
Rui Zhou, Chengfei Liu, Jianxin Li
March 2010 **EDBT '10:** Proceedings of the 13th International Conference c
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Full text available: 🔲 Pdf (693.16 KB)   Additional Information: full citation, abstract

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Keyword search is integrated in many applications on account of the co
intention. Recently, answering keyword queries on XML data has drawn
communities, because the success of this research ...

17 Efficient algorithms for processing XPath queries
Georg Gottlob, Christoph Koch, Reinhard Pichler
August 2002 **VLDB '02:** Proceedings of the 28th international conference o
Publisher: VLDB Endowment
Full text available: 🔲 Pdf (253.83 KB)   Additional Information: full citation, abstract

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Our experimental analysis of several popular XPath processors reveals a
of the systems requires time exponential in the size of queries in the wc
processed much more efficiently, ...

18 Model checking XML manipulating software
Xiang Fu, Tevfik Bultan, Jianwen Su
July 2004   **ISSTA '04:** Proceedings of the 2004 ACM SIGSOFT internatio
analysis
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The use of XML as the de facto data exchange standard has allowed int
software systems regardless of implementation platforms and programr
rich tree-structured data representation, ...

Keywords: MSL, SPIN, XML, XML schema, XPath, model checking, pror

Also published in:
July 2004 **SIGSOFT Software Engineering Notes** Volume 29 Issue 4

19 FIX: feature-based indexing technique for XML documents
Ning Zhang, M. Tamer Özsu, Ihab F. Ilyas, Ashraf Aboulnaga
September 2006 **VLDB '06:** Proceedings of the 32nd international conferen
Publisher: VLDB Endowment
Full text available: Pdf (965.30 KB)   Additional Information: full citation, abstra

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Indexing large XML databases is crucial for efficient evaluation of XML tv
feature-based indexing technique, called FIX, based on spectral graph th
twig pattern in a collection ...

20 Enabling Schema-Free XQuery with meaningful query focus
Yunyao Li, Cong Yu, H. V. Jagadish
May 2008   **The VLDB Journal — The International Journal on Very L**
Publisher: Springer-Verlag New York, Inc.
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The widespread adoption of XML holds the promise that document struc
database queries. However, users may have only a limited knowledge o
to produce a correct XQuery expression, ...

Keywords: Hierachical, Query language, Schema, Semi-structured, XN

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